



# International Space Station

How to Get New Research Onto ISS



◀ A 5-Phase Template ▶



ISS Research Integration Office  
NASA/Johnson Space Center  
May 2013



# How to Get New Research Onto ISS

## ◀ A 5-Phase Template ▶

### *Summary*



#### PHASE 1: SPONSORSHIP

Funding Sources

Points of Contact



#### PHASE 2: STRATEGIC PLANNING



#### PHASE 3: TACTICAL PLANNING



#### PHASE 4: OPERATIONS



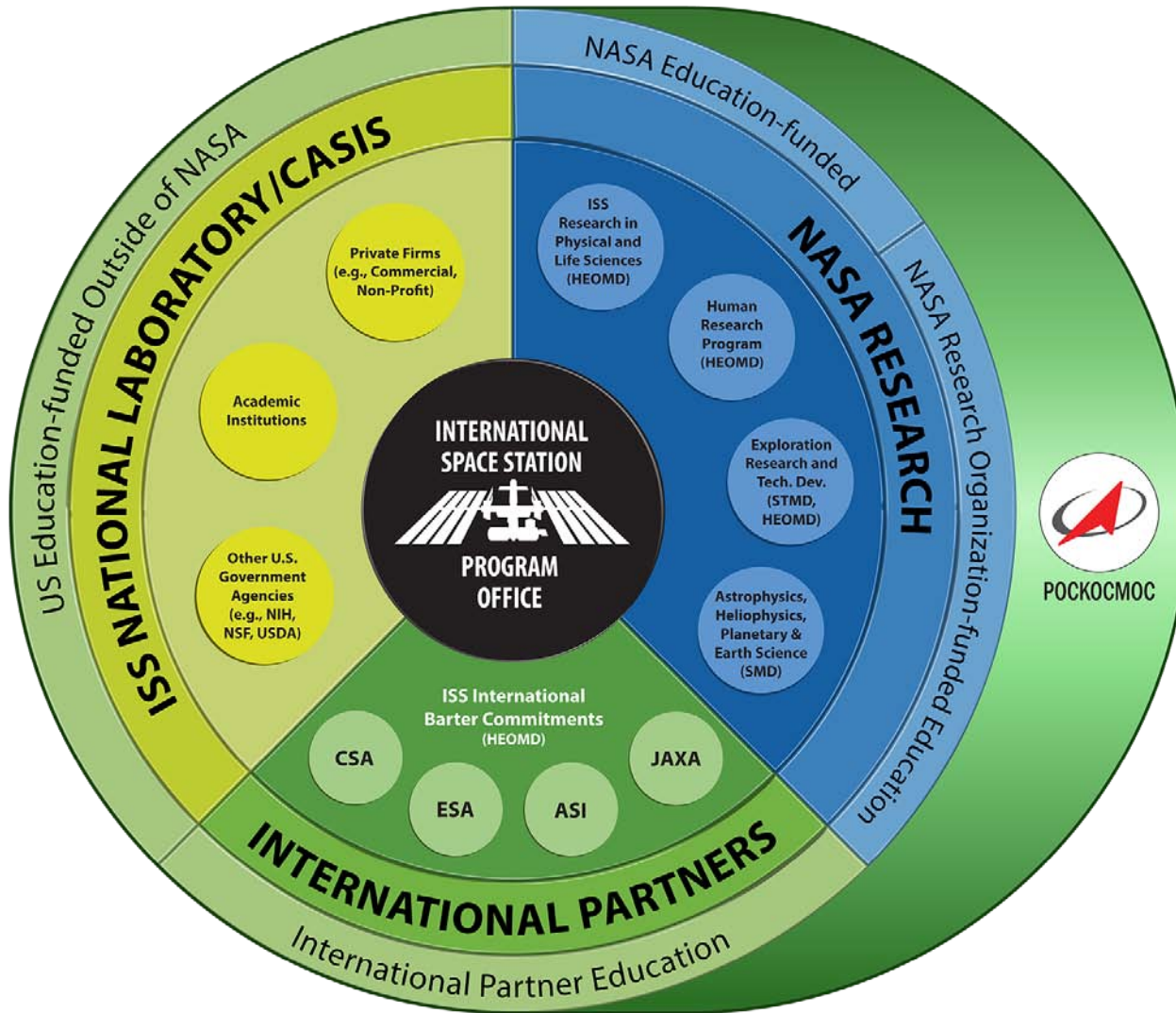
#### PHASE 5: POST-FLIGHT





# PHASE 1: SPONSORSHIP

## Funding Sources



### (a) NASA Research

Grant opportunities and information in NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES) at <http://nspires.nasaprs.com/external/>

### (b) National Laboratory Research / The Center for the Advancement of Space in Science (CASIS)

The 2005 NASA Authorization Act designated the U.S segment of the space station as a national laboratory, enabling access by other Federal agencies, non-profits, and the private sector. Opportunities and information in CASIS' website at <http://www.iss-casis.org/>

### (c) Educational Activities

Both NASA Education and CASIS offer education opportunities and information at NASA: [http://www.nasa.gov/mission\\_pages/station/research/research\\_teacher.html](http://www.nasa.gov/mission_pages/station/research/research_teacher.html) and at CASIS: <http://www.iss-casis.org/research.php>

### (d) International Partner Research

International investigators should seek sponsorship through their appropriate space agency.

For more information on research sponsorship and funding, see:

[http://www.nasa.gov/mission\\_pages/station/research/funding\\_information.html](http://www.nasa.gov/mission_pages/station/research/funding_information.html)

(Acronym list on last page of this presentation)







# PHASE 1: SPONSORSHIP

## Points of Contact

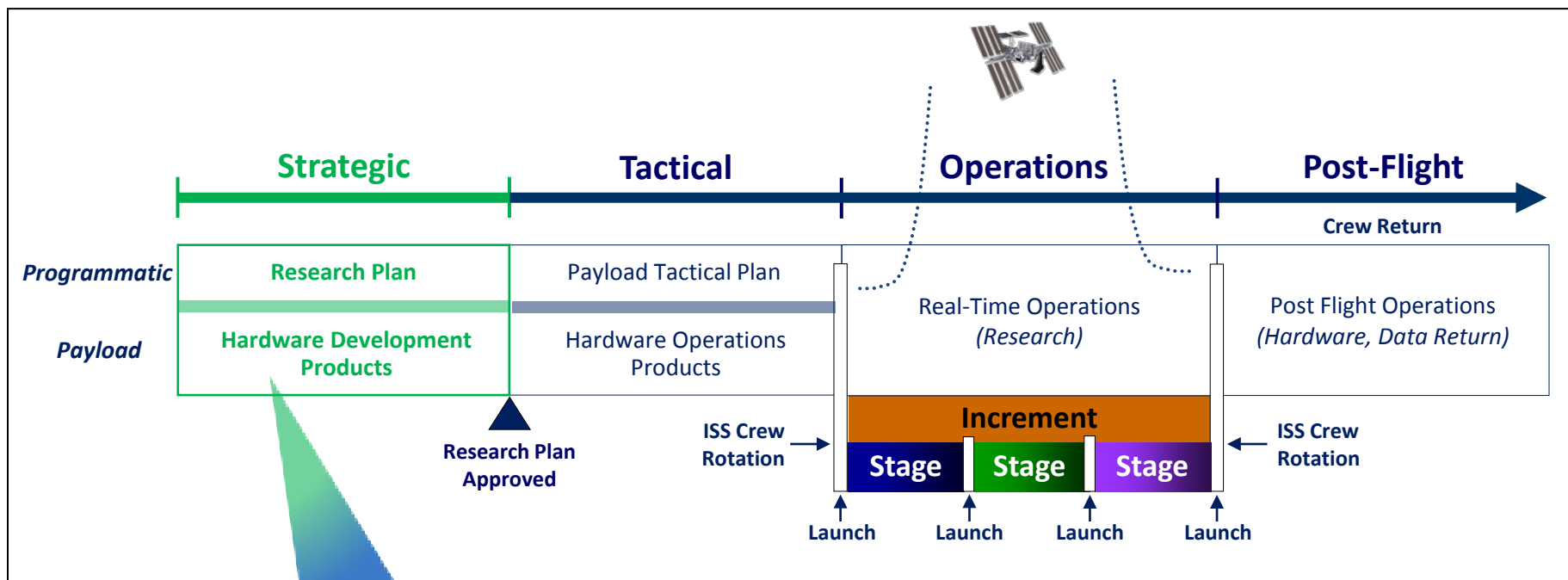


SPONSORING ORGANIZATION Division or Program (Funding Source)	SELECTING ORGANIZATION Mission Directorate , Office, or Organization - Contact	ISS Integration Contact
<b>NASA Space Life and Physical Sciences Research and Applications Division</b> - Physical Science Research Program (NASA-funded) - Space Biology (NASA-funded)	<b>NASA Human Exploration Operations Mission Directorate</b> <i>Marshall Porterfield, Division Director, Life and Physical Sciences</i> - Francis Chiamonte, Program Executive, Physical Science - David Tomko, Program Executive, Space Biology - Mark Lee, Program Executive, Fundamental Sciences	Sharon Conover, NASA/JSC
<b>NASA Space Life and Physical Sciences Research and Applications Division</b> - Human Research Program (NASA-funded)	<b>NASA Human Exploration Operations Mission Directorate</b> - William Paloski, Program Manager, Human Research (JSC)	Suzanne McCollum, NASA/JSC
<b>NASA Astrophysics, Earth Science, Heliophysics, Planetary Science Divisions</b> (NASA-funded)	<b>NASA Science Mission Directorate</b> -Paul Hertz, Division Director, Astrophysics -Michael Freilich, Division Director, Earth Sciences -Jim Green, Division Director , Planetary Science -Victoria Elsbernd, Division Director, Heliophysics	Sharon Conover, NASA/JSC
<b>NASA Technology Development and Demonstration</b> (NASA-funded)	<b>NASA Space Technology Mission Directorate</b> - Randy Lillard, Program Executive, Technology Demonstration Missions (STMD) -Tibor Balint, Program Executive ,Game Changing Development (STMD) <b>NASA Human Exploration Operations Mission Directorate</b> - Jason Crusan, Division Director, Advanced Exploration Systems	George Nelson, NASA/JSC
<b>ISS National Laboratory</b> (Other government agency funded, non-profit / commercially funded)	<b>The Center for the Advancement of Space in Science (CASIS)</b> - Ken Shields, Chief Operating Officer, CASIS	Michael Read, NASA/JSC
<b>NASA Education</b> <b>ISS National Laboratory Education</b>	<b>NASA Office of Education</b> - ISS Education: Douglas Goforth, Education Project Manager <b>The Center for the Advancement of Space in Science (CASIS)</b> - ISS Education: Ken Shields, Chief Operating Officer, CASIS	Sharon Conover, NASA/JSC Michael Read, NASA/JSC





## PHASE 2: STRATEGIC PLANNING



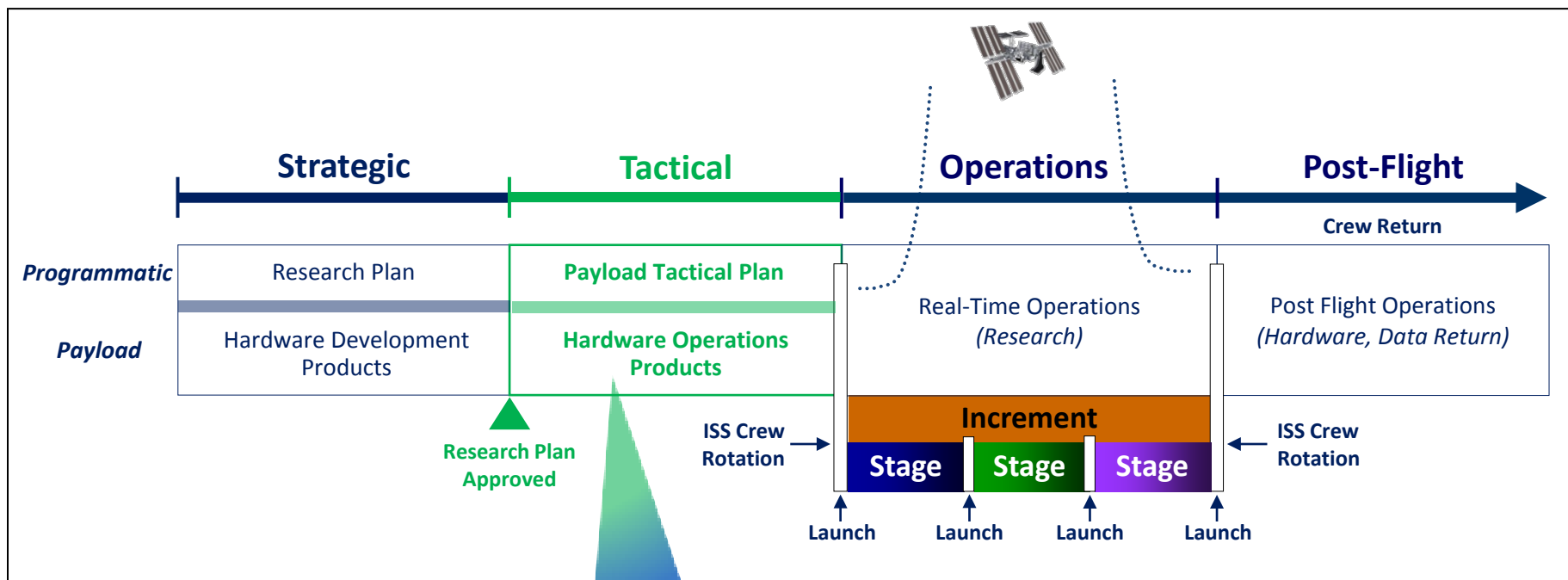
### *Payload Developer Inputs*

WHO: Points of Contact  
WHAT: Requirements Definition  
WHEN: Operations Plan  
WHERE: Launch and On-Orbit Requirements  
WHY: Investigation Objectives





## PHASE 3: TACTICAL PLANNING



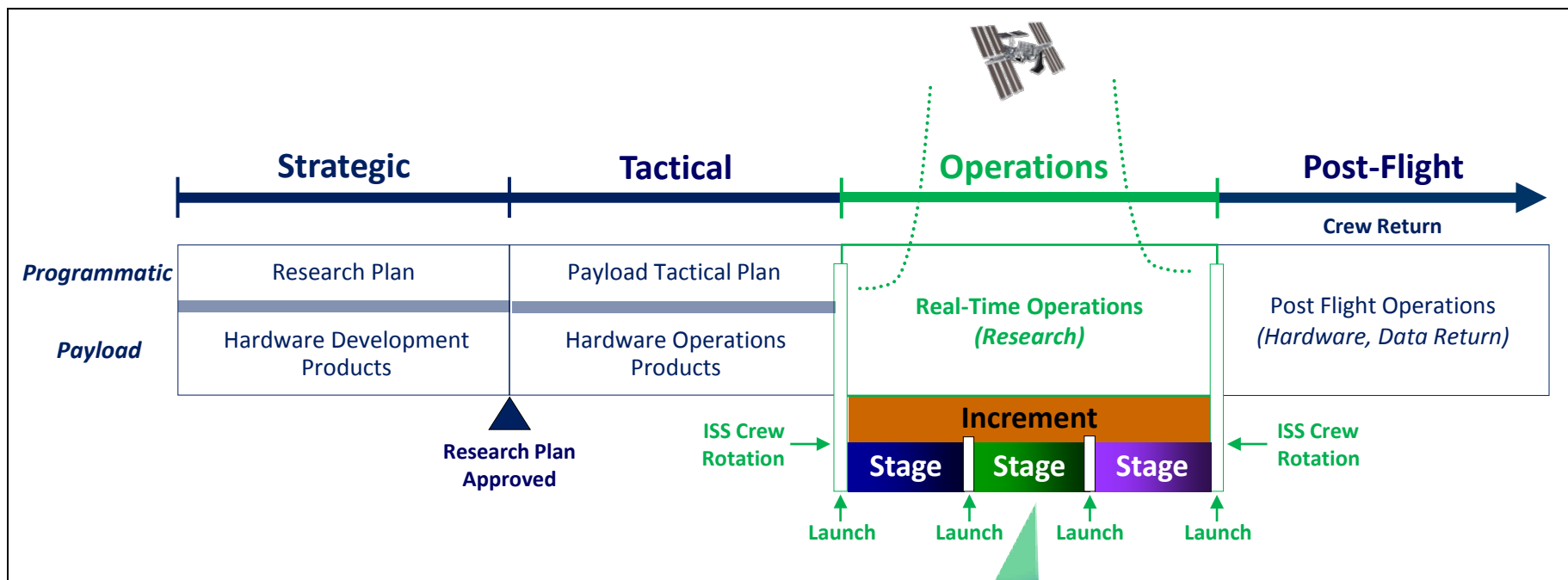
### *Payload Developer Inputs*

- Changes to Baselined Research Plan
- Training Products and Procedures
- Safety Review Packages
- Hardware Verification Data
- Software Verification Data





# PHASE 4: OPERATIONS



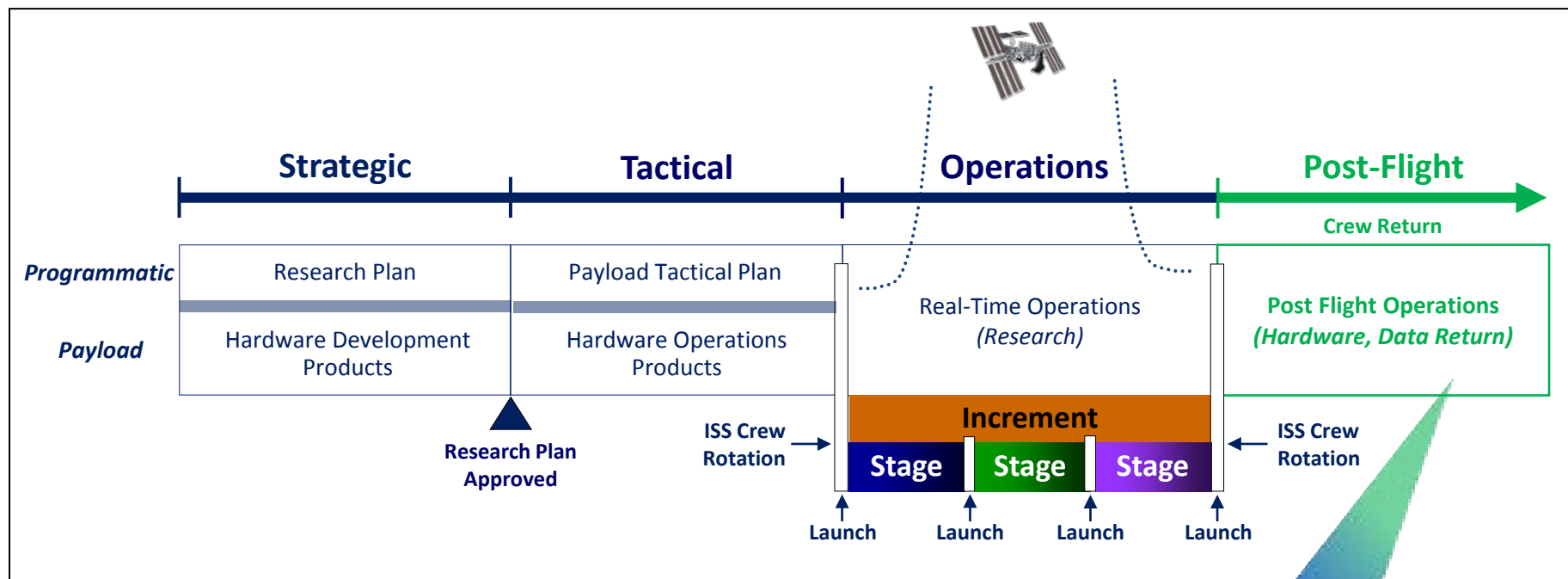
## Payload Developer Inputs

- Investigator Participation Real-Time (e.g., Console Operations)
- Crew Conferences
- Anomaly Resolution
- Data Collection and Sample Return





# PHASE 5: POST-FLIGHT



## Payload Developer Inputs

- Research Summary Updates
- 30-Day Reports
- Formal Publications







# ACRONYMS



AES	= Advanced Exploration Systems
ASI	= Agenzia Spaziale Italiana
CASIS	= The Center for the Advancement of Science in Space
CSA	= Canadian Space Agency
DoD	= Department of Defense
ESA	= European Space Agency
HEOMD	= Human Exploration Operations and Mission Directorate
ISS	= International Space Station
JAXA	= Japan Aerospace Exploration Agency
JSC	= Johnson Space Center
NIH	= National Institutes of Health
NSF	= National Science Foundation
NSPIRES	= NASA Solicitation and Proposal Integrated Review and Evaluation System
OCT	= Office of the Chief Technologist
SMD	= Science Mission Directorate
STMD	= Space Technology Mission Directorate
tbd	= To be determined
Tech. Dev.	= Technology Development
USDA	= United States Department of Agriculture